



Algorithms

Instruments

Other

Aura Science Team Meeting

Algorithm Group Report

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3 March 2005

Previous

Next

Resize

Goto

Quit



Algorithms

Instruments

Other

Instrument summaries

TES Summary from Helen Worden.

- ☐ Nadir algorithms and products working well.
- ☐ Particularly impressive results from new 'cloud aware' algorithm.
⇒ More on this in talk by Susan Kulawik today.
- ☐ Limb algorithms progressing, but nadir products have first priority.

OMI Summary from Pepijn Veefkind.

- ☐ OMI is somewhat different, there are multiple L1 to L2 algorithms.
- ☐ Good progress on all algorithms.
- ☐ Ozone profile algorithm needs some more work before useful products delivered.
- ☐ Some issues with calibration still being worked.

MLS Summary from Nathaniel Livesey.

- ☐ Most products retrieved well. Radiances fit within the 0.2 K criterion in many cases.
- ☐ Some products / retrievals have occasional problems with poor convergence.
- ☐ Most of these are adequately flagged by quality checking algorithms.

HIRDLS Summary from Alyn Lambert.

- ☐ An impressive talk detailing all the issues they have had to pursue to subtract the 'blockage radiance'.
- ☐ Very encouraging initial results. More to come.

[Previous](#)

[Next](#)

[Resize](#)

[Goto](#)

[Quit](#)



Algorithms

Instruments

Other

Other topics

- ☐ Clive Rodgers gave a nice talk on the use of singular value decomposition to aid in the analysis of TES spectra.
- ☐ The remainder of the meeting was a discussion of the future remit of the group.
- ☐ Our previous main activity (along with algorithm discussions) was instrument intercomparisons using simulated data.
- ☐ There is no real call for this activity post launch.
- ☐ The decision was made that the group should 'morph' into the 'Algorithm and Data Assimilation' working group.
- ☐ The structure of this new group is TBD.

Previous

Next

Resize

Goto

Quit